

# CLAY STATISTICS

By David A. Buckingham and Robert L. Virta

[All values are in metric tons (t) unless otherwise noted]

Last modification: August 27, 2002

Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (\$98/t)
1900	1,108,000	155,000		1,263,000	2.38	47.00
1901	1,253,000	171,000		1,424,000	2.61	51.00
1902	1,331,000	185,000		1,516,000	2.26	43.00
1903	1,508,000	199,000		1,708,000	2.42	44.00
1904	1,405,000	184,000		1,589,000	2.32	42.00
1905	1,661,000	218,000		1,880,000	2.31	42.00
1906	1,868,000	256,000		2,125,000	2.41	44.00
1907	2,011,000	274,000		2,285,000	2.53	44.00
1908	1,591,000	202,000		1,793,000	2.44	44.00
1909	1,990,000	275,000		2,265,000	2.49	45.00
1910	2,197,000	295,000		2,492,000	2.38	42.00
1911	2,017,000	280,000		2,297,000	2.51	44.00
1912	2,325,000	321,000		2,646,000	2.40	41.00
1913	2,436,000	324,000		2,760,000	2.43	40.00
1914	2,042,000	384,000		2,426,000	2.74	44.50
1915	2,200,000	238,000		2,438,000	2.49	40.00
1916	2,722,000	286,000	67,000	2,941,000	2.70	40.30
1917	2,925,000	259,000	75,000	3,108,000	3.23	41.10
1918	2,777,000	193,000	77,000	2,893,000	3.63	39.30
1919	2,160,000	198,000	62,000	2,297,000	4.76	44.90
1920	3,091,000	383,000	109,000	3,349,000	4.80	39.00
1921	1,680,000	198,000	43,000	1,836,000	5.02	45.60
1922	2,528,000	337,000	43,000	2,822,000	4.86	47.20
1923	3,251,000	363,000	80,000	3,534,000	4.66	44.40
1924	3,510,000	409,000	72,000	3,848,000	4.42	42.10
1925	3,844,000	404,000	81,000	4,164,000	4.48	41.50
1926	3,811,000	452,000	88,000	4,176,000	4.96	45.50
1927	3,732,000	365,000	101,000	3,995,000	4.90	45.80
1928	3,913,000	343,000	125,000	4,131,000	4.87	46.40
1929	4,230,000	343,000	158,000	4,415,000	4.78	45.50
1930	3,900,000	265,000	137,000	4,034,000	4.60	45.10
1931	2,547,000	177,000	104,000	2,619,000	4.57	48.90
1932	1,470,000	119,000	78,000	1,510,000	4.80	57.30
1933	1,873,000	140,000	98,000	1,915,000	4.63	58.20
1934	2,184,000	123,000	115,000	2,192,000	4.64	56.50
1935	2,859,000	160,000	137,000	2,881,000	4.42	52.50
1936	3,641,000	178,000	142,000	3,677,000	4.28	50.40
1937	4,049,000	186,000	153,000	4,082,000	4.45	50.50
1938	2,632,000	103,000	120,000	2,615,000	4.99	57.80
1939	3,563,000	138,000	124,000	3,577,000	4.68	54.90
1940	4,398,000	127,000	167,000	4,358,000	4.30	50.00
1941	6,555,000	102,000	189,000	6,468,000	3.96	43.90
1942	6,847,000	76,000	175,000	6,747,000	3.77	37.70
1943	18,886,000	65,000	148,000	18,802,000	2.05	19.30
1944	15,690,000	60,000	164,000	15,586,000	2.23	20.60
1945	17,168,000	70,000	167,000	17,070,000	2.46	22.40
1946	27,727,000	106,000	195,000	27,638,000	2.15	17.90
1947	30,481,000	102,000	242,000	30,341,000	2.35	17.20
1948	34,226,000	123,000	242,000	34,107,000	2.41	16.30
1949	31,888,000	95,000	222,000	31,761,000	2.39	16.40
1950	35,726,000	146,000	216,000	35,657,000	2.58	17.40
1951	39,386,000	137,000	294,000	39,230,000	3.14	19.70
1952	37,801,000	130,000	276,000	37,655,000	3.33	20.40
1953	38,488,000	135,000	274,000	38,349,000	3.13	19.10

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1954	38,560,000	150,000	298,000	38,412,000	3.05	18.50
1955	43,640,000	175,000	369,000	43,446,000	3.02	18.40
1956	46,061,000	160,000	464,000	45,757,000	3.35	20.10
1957	41,388,000	147,000	440,000	41,095,000	3.49	20.20
1958	39,689,000	147,000	408,000	39,428,000	3.40	19.20
1959	44,800,000	159,000	444,000	44,515,000	3.33	18.60
1960	44,515,000	145,000	481,000	44,179,000	3.44	18.90
1961	42,991,000	142,000	507,000	42,625,000	3.41	18.50
1962	43,361,000	120,000	560,000	42,921,000	3.46	18.70
1963	45,482,000	114,000	670,000	44,926,000	3.60	19.10
1964	48,033,000	124,000	769,000	47,388,000	3.60	18.90
1965	50,009,000	100,000	771,000	49,338,000	3.68	19.00
1966	51,449,000	126,000	974,000	50,601,000	3.82	19.20
1967	49,590,000	98,000	1,042,000	48,646,000	3.98	19.40
1968	52,025,000	88,000	1,378,000	50,735,000	4.03	18.90
1969	53,246,000	74,000	1,428,000	51,893,000	4.25	18.90
1970	49,762,000	79,000	1,883,000	47,957,000	4.22	17.72
1971	51,407,000	58,000	1,790,000	49,675,000	4.22	16.99
1972	53,938,000	61,000	1,676,000	52,323,000	4.53	17.65
1973	58,378,000	48,000	1,902,000	56,524,000	4.86	17.83
1974	55,153,000	39,000	2,224,000	52,969,000	5.83	19.27
1975	44,495,000	34,000	2,100,000	42,429,000	7.17	21.72
1976	47,527,000	35,000	2,256,000	45,306,000	8.31	23.80
1977	48,259,000	33,000	2,323,000	45,968,000	9.10	24.48
1978	51,548,000	23,000	2,418,000	49,153,000	10.62	26.54
1979	49,613,000	46,000	2,908,000	46,752,000	12.93	29.04
1980	44,262,000	31,000	2,916,000	41,377,000	15.44	30.55
1981	40,260,000	30,000	2,859,000	37,431,000	18.72	33.55
1982	32,064,000	22,000	2,376,000	29,710,000	18.83	31.80
1983	37,066,000	19,000	2,253,000	34,831,000	19.48	31.88
1984	39,646,000	29,000	2,448,000	37,226,000	19.85	31.16
1985	40,908,000	37,000	2,522,000	38,423,000	18.41	27.90
1986	40,580,000	35,000	2,643,000	37,972,000	19.80	29.44
1987	43,234,000	34,000	3,023,000	40,246,000	17.31	24.83
1988	44,515,000	33,000	3,535,000	41,012,000	21.47	29.59
1989	42,254,000	28,000	3,755,000	38,527,000	25.24	33.19
1990	42,900,000	30,000	4,123,000	38,807,000	23.96	29.89
1991	41,000,000	35,000	3,997,000	37,038,000	23.29	27.87
1992	40,200,000	41,000	4,158,000	36,083,000	22.43	26.06
1993	40,700,000	39,000	4,154,000	36,585,000	22.44	25.32
1994	42,000,000	36,000	4,620,000	37,416,000	23.25	25.57
1995	43,100,000	35,000	4,680,000	38,455,000	24.18	25.86
1996	43,100,000	45,000	4,830,000	38,315,000	23.58	24.50
1997	41,989,000	64,000	5,080,000	36,973,000	22.24	22.59
1998	42,934,000	86,000	5,230,000	37,790,000	27.02	27.02

## Clay Worksheet Notes

### Data Sources

The sources of data for the clay worksheet are the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR). The years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data are not available.

### Production

Data are domestic clay material sold by producers. Prior to 1943, most of the clay used for the production of brick, sewer pipe, and other heavy clay products was not included in the production statistics. Data are reported in the MR and the MYB.

### Imports

Data are clay material imported into the United States, as reported in the MR and the MYB.

### Exports

Data are clay material exported from the United States, as reported in the MR and the MYB. Export data are not reported prior to 1915.

### Apparent Consumption

Prior to 1943, most of the clay used for the production of brick, sewer pipe, and other heavy clay products was not included in the production statistics. Clay apparent consumption data are calculated by using the following equation:

$$\text{APPARENT CONSUMPTION} = \text{PRODUCTION (PRODUCER SALES)} + \text{IMPORTS} - \text{EXPORTS}.$$

### Unit Value (\$/t)

Unit value is defined as the value of 1 metric ton (t) of clay apparent consumption. Data are estimated by using the following equation:

$$\text{UNIT VALUE} = (\text{TOTAL SALES VALUE} + \text{TOTAL IMPORT VALUE} - \text{TOTAL EXPORT VALUE}) / (\text{APPARENT CONSUMPTION}).$$

### Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

### References

U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.  
U.S. Bureau of Mines, 1933–96, Minerals Yearbook, 1932–94.  
U.S. Geological Survey, 1901–27, Mineral Resources of the United States, 1900–23.  
U.S. Geological Survey, 1997–2000, Minerals Yearbook, v. I, 1995–98.

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